

CLAIMS

What Is Claimed Is:

1. A headlight housing assembly comprising:
 - a housing defined by an inner surface and an outer surface and an inner chamber;
 - a lamp attached to said housing and resident inside said inner chamber;
 - a ball dome member attached to said outer surface such that said entire ball dome member is external to said inner chamber.
2. The assembly of Claim 1, wherein said ball dome member is further defined by a cylindrical portion, said cylindrical portion terminating in a dome portion at one end and in an annular face at another end, said annular face defined by one or more threaded bores formed therethrough.
3. The assembly of Claim 2, wherein said ball dome member is further defined by a slot formed in said dome portion.
4. The assembly of Claim 3, wherein said housing further includes at least one bolt aperture formed therethrough, and wherein said assembly further comprises a mounting bolt inserted through each said bolt aperture to pass from said interior chamber out through said bolt aperture and into a corresponding said threaded bore formed in said ball dome member, whereby each said mounting bolt is in threaded engagement with one said threaded bore to attach said ball dome to said outer surface of said housing.
5. The assembly of Claim 4, further defined by a carriage bolt, said carriage bolt defined by a threaded shaft portion transitioning into a generally rectangular portion, said generally rectangular portion configured to cooperate with said slot to prevent said carriage bolt from rotating when said generally rectangular portion is engaging said slot, said generally rectangular portion transitioning into a flat-sided head.

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6. The assembly of Claim 5, wherein said flat-sided head comprises two opposing sides in spaced relation that is substantially identical to two corresponding opposing sides of said generally rectangular portion, said flat-sided head further defined by a pair of opposing long ends for engagement with said dome portion adjacent to said slot.

7. The assembly of Claim 6, wherein:

said housing is defined by at least four said bolt apertures in spaced relation to describe a generally circular shape;

said dome member comprises four said threaded bores disbursed on said annular face to correspond with said bolt apertures; and

said assembly further comprises four said mounting bolts inserted through said bolt apertures and into threaded engagement with said threaded bores.

8. A ball dome assembly for attachment to the outer surface of a headlight housing, the assembly comprising:

a ball dome defined by an annular face, said ball dome attached to the outer surface of the housing with said annular face substantially in contact with said outer surface.

9. The assembly of Claim 8, ball dome is further defined by a plurality of threaded bores therein, said threaded bores opening on said annular face in generally spaced relation.

10. The assembly of Claim 9, wherein said ball dome member is further defined by a slot formed in said dome portion.

11. The assembly of Claim 10, further defined by a plurality of mounting bolts, each said mounting bolt in threaded engagement with one said threaded bore.

12. The assembly of Claim 11, further defined by a carriage bolt, said carriage bolt defined by a threaded shaft portion transitioning into a generally rectangular portion, said generally rectangular portion configured to cooperate with said slot to prevent said carriage

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bolt from rotating when said generally rectangular portion is engaging said slot, said generally rectangular portion transitioning into a flat-sided head.

13. The assembly of Claim 12, wherein said flat-sided head comprises two opposing sides in spaced relation that is substantially identical to two corresponding opposing sides of said generally rectangular portion, said flat-sided head further defined by a pair of opposing long ends for engagement with said dome portion adjacent to said slot.

14. A headlight housing and ball dome assembly combination, comprising:

a housing defined by an inner chamber and an outer surface;

a ball dome member attached to said outer surface; and

at least one mounting bolt penetrating said housing from said inner chamber and threadedly engaging a threaded bore formed in said ball dome.

15. The combination of Claim 14, wherein said ball dome member is further defined by a cylindrical portion, said cylindrical portion terminating in a dome portion at one end and in an annular face at another end, said annular face defined by one or more of said threaded bores formed therethrough.

16. The combination of Claim 15, wherein said ball dome member is further defined by a slot formed in said dome portion.

17. The combination of Claim 16, further defined by a carriage bolt, said carriage bolt defined by a threaded shaft portion transitioning into a generally rectangular portion, said generally rectangular portion configured to cooperate with said slot to prevent said carriage bolt from rotating when said generally rectangular portion is engaging said slot, said generally rectangular portion transitioning into a flat-sided head.

18. The combination of Claim 17, wherein said flat-sided head comprises two opposing sides in spaced relation that is substantially identical to two corresponding opposing sides

of said generally rectangular portion, said flat-sided head further defined by a pair of opposing long ends for engagement with said dome portion adjacent to said slot.

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